

AMENDMENTS TO THE CLAIMS

The claims in this listing will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A manufacturing method of a complex lens for a tandem scanning optical system that consists of a plurality of stacked lens portions and said lens portions converging a plurality of light beams, which are modulated independently and deflected by a deflector, onto a surface to be scanned, respectively, for forming a plurality of scanning lines at the same time, said method comprising:

preparing molding dies for forming a cavity to ~~unitarily~~ form said complex lens as  
[[a]] an integrally molded single-piece element; and  
injecting lens material into said cavity,  
wherein said molding dies include ~~a pair of~~ first and second single-piece ~~unitarily~~ formed mirror surface cores that ~~form~~ a plurality of lens surfaces of said complex lens at an incident side and a plurality of lens surfaces at an exit side, respectively, each of the first and second single-piece mirror surface cores having a plurality of mirror surface portions, the plurality of mirror surface portions of the first single-piece mirror surface core respectively forming a plurality of lens surfaces at an incident side, the plurality of mirror surface portions of the second single-piece mirror surface core respectively forming a plurality of lens surfaces at an exit side.

2. (Previously Presented) The manufacturing method according to claim 1, wherein each of mirror surface portions of said mirror surface cores has a concave sectional shape in a direction perpendicular to the direction in which a plurality of light beams scan.

3. (Previously Presented) The manufacturing method according to claim 1, wherein said mirror surface portions of at least one of said mirror surface cores at the incident and exit sides are formed as rotationally-symmetrical concave surfaces with respect to respective optical axes.

4. (Withdrawn) A complex lens for a tandem scanning optical system that converges a plurality of light beams, which are modulated independently and deflected by a deflector, onto a surface to be scanned, for forming a plurality of scanning lines at the same time, said complex lens comprising:

a plurality of stacked lens portions that are molded as a single-piece element, wherein a plurality of lens surfaces of said lens portions at an incident side are formed by a single-piece mirror surface core and a plurality of lens surfaces of said lens portions at an exit side are formed by another single-piece mirror surface core during molding process.

5. (Withdrawn) The complex lens according to claim 4, wherein each of said lens surfaces of said lens portions has a convex sectional shape in a direction perpendicular to the direction in which a plurality of light beams scan.

6. (Withdrawn) The complex lens according to claim 4, wherein said lens surfaces of at least one of the incident and exit sides are formed as rotationally-symmetrical convex surfaces with respect to respective optical axes.

7. (Previously Presented) The manufacturing method according to claim 9, wherein said boundaries formed as peaks are sharply processed by a cutting tool so that said mirror surface portions are provided without margins therebetween, and said plurality of stacked lens surfaces are formed without margins therebetween.

8. (Canceled)

9. (Currently Amended) The manufacturing method according to claim 1, wherein boundaries of each of said mirror surface portions of said mirror surface cores are formed as peaks.